

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of the claims:

1. (Currently Amended) An installation for manufacturing of shaped elements from fibrous waste material, said installation comprising;
- means for mixing a portion of fibrous waste material with at least water to create a mass of waste material and water,
 - at least one conveyor belt for transporting said mass of waste material and water,
 - a first press for pressing and draining the mass for an amount of surplus water,
 - a second press adapted to co-operate with said conveyor belt for simultaneously pressing and vibrating the mass, and
 - means for cutting said pressed mass into elements of predetermined lengths.

2-19. (Cancelled)

20. (Currently Amended) An apparatus for pressing a mass of fibrous waste material, said apparatus comprising:
- an upper and a lower opposing surface, at least a part of one of the surfaces being perforated, so as to drain the mass when the mass is pressed between the surfaces, and
- wherein at least one of the surfaces is adapted to vibrate in relation to the mass.

21-24. (Cancelled)

25. (Currently Amended) A method of manufacturing shaped elements from fibrous waste material, comprising the steps of:
- providing a raw material of fibrous waste material,
 - mixing said raw material with at least water to create a mass of waste material and water,
 - transporting said mixed mass of waste material and water on a conveyor belt through a first press for pressing and draining said mass,
 - transporting said mass through a second press for simultaneously pressing and vibrating the mass, and
 - cutting said pressed mass into elements of predetermined lengths.

26-44. (Cancelled)

45. (New) An installation according to claim 1, wherein at least one of the first press and the second press comprises:
- one or more pressing surfaces oppositely arranged in relation to a supporting surface of the conveyor belt supporting said mass, and
 - opposing side surfaces,
- at least one of said pressing surfaces, side surfaces, and supporting surface being perforated, so as to drain water from the mass when the mass is pressed between the surfaces, and wherein at least one of said surfaces is adapted to vibrate in relation to the mass.

46. (New) An installation according to claim 45, wherein the one or more pressing surfaces

vibrate in relation to the mass and conveyor belt.

47. (New) An installation according to claim 45, wherein the side surfaces vibrate in relation to the mass.

48. (New) An installation according to claim 45, wherein the conveyor belt vibrates in relation to the mass.

49. (New) An installation according to claim 45, wherein the distance between the pressing surfaces and the supporting surface of the conveyor belt decreases in the conveying direction.

50. (New) An installation according to claim 49, wherein said distance is adjustable by moving at least one of the first press and the second press up or down.

51. (New) An installation according to claim 45, wherein at least one of the pressing surfaces and the side surfaces are adapted to move the mass.

52. (New) An installation according to claim 1, wherein at least one of the first press and second press comprises a conveyor belt being perforated.

53. (New) An installation according to claim 1, further comprising a parallel nozzle oppositely arranged in relation to said conveyor belt for providing a uniform material thickness.

54. (New) An installation according to claim 1, further comprising an oven for drying said elements.

55. (New) An installation according to claim 1, and comprising a further press for pressing said mass or elements after having been dried.

56. (New) An installation according to claim 1, and comprising a mill for grinding the mass before being drained.

57. (New) An installation according to claim 1, and comprising pumping means for pumping said waste material, water and polymer(s) through the installation.

58. (New) An installation according to claim 1, wherein mass is transported continuously through said installation in one endless row until it is cut into said elements.

59. (New) An installation according to claim 45, wherein the pressing surfaces comprise one or more vibrating pressing elements.

60. (New) An installation according to claim 59, wherein the one or more vibrating pressing elements comprise eccentric pressing elements.

61. (New) An installation according to claim 45, wherein at least one of the first press and the second press comprises at least one separate vibrating pressing surface adjacently arranged

and at different levels in relation to the conveyor belt supporting the mass.

62. (New) An installation according to claim 1, wherein at least one of the first press and the second press is a filter belt press.

63. (New) An apparatus according to claim 20, wherein the upper and lower surface is perforated.

64. (New) An apparatus according to claim 20, wherein the upper and the lower surfaces are vibrated in relation to each other.

65. (New) An apparatus according to claim 20, wherein at least one of the upper and lower surfaces is adapted to move the mass.

66. (New) An apparatus according to claim 20, and comprising any of the features of the second press of the installation according to claim 1.

67. (New) A method according to claim 25, wherein at least one of the first press and the second press is adapted to co-operate with said conveyor belt, said press comprising:

- one or more pressing surfaces oppositely arranged in relation to a supporting surface of the conveyor belt supporting said mass, and
- opposing side surfaces,

at least one of said pressing surfaces, side surfaces, and supporting surface being perforated, so as to drain water from the mass when the mass is pressed between the surfaces, and wherein at least one of said surfaces is vibrating in relation to the mass.

68. (New) A method according to claim 25, further comprising, subsequently to the step of vibrating, the step of drying the mass at elevated temperatures.

69. (New) A method according to claim 25, wherein the step of draining comprises transporting the mass through a belt press.

70. (New) A method according to claim 25, further comprising, subsequently to the step of draining, the step of transporting said mass on the conveyor through a parallel nozzle.

71. (New) A method according to claim 25, further comprising a third pressing step being provided by said second press or a stationary press.

72. (New) A method according to claim 25, wherein the mass is pumped from the mixer to a buffer tank before being provided on said conveyor belt.

73. (New) A method according to claim 72, wherein the mass is milled in a grinder or mill prior to entering the buffer tank.

74. (New) A method according to claim 25, wherein the step of mixing comprises mixing the raw material so as to result in a water content in the mass of 70-90%.

75. (New) A method according to claim 25, wherein the water content of the mass after the second step of pressing is 30-60%.
76. (New) A method according to claim 27, wherein the drying step comprises drying at a temperature in the range of 120-240°C.
77. (New) A method according to claim 25, wherein the drying step is carried out for a period of time sufficient to result in a water content in the material of not more than about 2-12%.
78. (New) A method according to claims 25, wherein the conveyor belt is perforated for drainage of surplus water from the mass.
79. (New) A method according to claim 25, wherein mass is transported continuously in an endless row on said conveyor belt.
80. (New) A method according to claim 25, wherein the speed of the mass being transported through at least one of the first press and the second press is 1-10 meter per minute.
81. (New) A method according to claim 25, and carried out by the use of an installation according to claim 1.
82. (New) A method according to claim 25, wherein the raw material of fibrous waste material comprises:
- 30-40% of water
 - 60-70% of solids comprising:
 - 30-40% cellulose fibres
 - 65-70% chalk, clay and kaolin
 - 2-8% other ingredients comprising amines and scraps of soap.
83. (New) A method according to claim 25, wherein the solid percent is increased by adding filling material.
84. (New) A method according to claim 83, wherein the filling material comprises at least one of:
rest-material that has been cut away, when cutting the elements into preferred length; and
dust from the manufacturing process.
85. (New) A method according to claim 25, wherein the raw material is mixed with a polymer.